

## CLAIMS

1. A self-tapping stud for rubber supports of shoes, tyres and the like, comprising a body presenting a threaded portion fixable into said rubber support and a head which projects from said support when said stud has  
5 been mounted, characterised in that said threaded portion presents a thread provided with a free helical edge which extends along a substantially cylindrical surface.
2. A self-tapping stud for rubber supports of shoes, tyres and the like, comprising a body presenting a threaded portion fixable into said rubber  
10 support and a head which projects from said support when said stud has been mounted, characterised in that said threaded portion presents a substantially conical or frusto-conical core.
3. A self-tapping stud for rubber supports of shoes, tyres and the like, comprising a body presenting a threaded portion fixable into said rubber  
15 support and a head which projects from said support when said stud has been mounted, characterised in that said threaded portion presents a thread provided at its free start with a cutting edge, said cutting edge being orientated with the same inclination as said thread.
4. A self-tapping stud as claimed in one or more of the preceding  
20 claims, characterised in that a first thread profile facing the convergent end of the core is substantially perpendicular to an axis of said core.
5. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that a second thread profile facing the body of said core is substantially inclined to an axis of said core.
- 25 6. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said second profile is inclined at an obtuse

angle to an axis of said core.

7. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said obtuse angle is between 95 and 110 degrees.

5 8. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said free helical edge presents a substantially flat longitudinal profile.

9. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said substantially flat longitudinal profile  
10 presents dimensions between 0.4 and 1.6 millimetres.

10. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said body (2) is faceted (2a), said part (5) presenting a rounded or round profile.

11. A tool for mounting studs of the type comprising a body presenting  
15 a threaded portion fixable into a rubber support and a head which projects from said support when said stud has been mounted, characterised by comprising: a seat for receiving said head of said stud as an exact fit, and an abutment surface adjacent to a mouth of said seat, said tool enabling said stud to be screwed into said support until said abutment surface  
20 abuts against said support.

12. A tool as claimed in claim 11, characterised by comprising a body within which there slides an operating element carrying at its end said seat, said body presenting a first element and a second element which are slidable one in the other against and by the action of elastic means and  
25 arranged to assume a first extended position, in which the first element defines a widened chamber facing the seat of the operating element to

receive as an exact fit at least a part of said body of said stud, and a second contracted position, in which said seat of said operating element projects from said first element.

13. A tool as claimed in claim 11 or 12, characterised by enabling said  
5 stud to be screwed into said support until a surface (24a) of said first element (24) abuts against a surface (25a) of said second element (25).

14. A tool as claimed in claim 11, characterised by comprising a body from which said seat projects.

15. A tool as claimed in one or more of claims 11 onwards,  
10 characterised in that said seat comprises magnetic means to retain said stud in said seat.

16. A tool as claimed in claim 11, characterised by comprising a body from which said seat projects, said body presenting close to said seat an end portion which converges to facilitate visibility in the seat region.

15 17. A self-tapping stud for rubber supports of shoes, tyres and the like, and a tool for mounting said stud, all substantially as described, represented in the accompanying drawings and claimed.